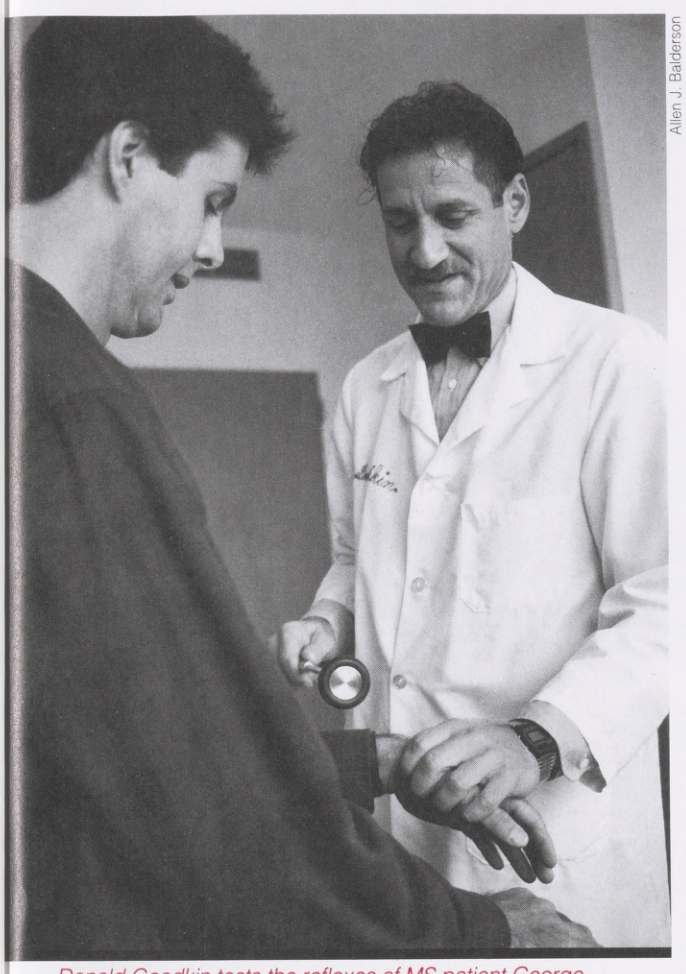
November/December 1993 Volume 18, Number 6

News for You

A summary of recent news stories from the University of California, San Francisco

UCSF

Multiple Sclerosis Center Opens



Allen J. Balderson

Donald Goodkin tests the reflexes of MS patient George Acker of Alameda.

A new Multiple Sclerosis Center has opened on 7 North at the UCSF/Mount Zion Medical Center, 1600 Divisadero Street.

"There is no other center like this in the area," says neurologist Donald E. Goodkin, MD, medical director of the new Center. "There are clinics, but none have a multidisciplinary approach to treat the medical, social, psychological and cognitive aspects of the disease." To successfully treat MS patients, the new Center has, in addition to Goodkin, two other neurologists, a full-time physical therapist, an occupational therapist, nurse practitioner, social worker, urologist, psychologist and neuropsychologist.

Multiple sclerosis is a chronic, often disabling disease of the central nervous system believed to result from immune-system dysfunction, although the precise cause is unknown. It is characterized by the inflammation and breakdown in the protective myelin sheath surrounding the nerve fibers. The myelin is destroyed and replaced by scars of hardened sclerotic patches of tissue. These lesions, called plaques, occur in multiple places within the central nervous system. Hence the name multiple sclerosis.

The resulting symptoms may include extreme fatigue, impaired vision, loss of balance and muscle coordination, slurred speech, tremors, stiffness, bladder and bowel problems, difficulty walking or even paralysis.

Besides providing patient care, the new MS Center conducts research (basic science and clinical) and serves as an educational resource, both for patients and health care professionals throughout the region.

For further information on, or an appointment at, the new MS Center, call 885-7844.

Surgeons Divide Single Liver Between Two Recipients

Two liver transplant recipients are in good condition after each received part of a single donor organ, according to Jean Emond, MD, director of the UCSF Pediatric Liver Transplant Program. The recipients, a 14-month-old Sacramento girl and 43-year-old Santa Cruz woman, left the intensive care unit two days after the procedures occurred on September 18.

Because of the liver's unique ability to regenerate, the portions of the donor organ transplanted to each of the patients will quickly grow to full sized, healthy livers, says Emond.

UCSF is the first transplant center on the West Coast to perform such a procedure. The donor organ came from an adult accident victim.

Members of the UCSF Transplant Service hope the unusual procedure eventually will help ease the severe shortage of donor organs. Nearly 2,800 patients are currently on waiting lists for liver transplants. More than 500 of them will die this year while waiting for organs to become available from donors who die in auto accidents or other traumatic events.

For further information on organ transplant programs at UCSF, the third most active transplant center in the country, call 476-8028 (liver), 476-1551 (kidney-pancreas), and 476-2606 (heart and lung).

Fetal Surgery a Success for Benjamin

Looking at seven-month-old Benjamin Crosland, you would never know he nearly died before he was even born. But last December, when his mother Jill was 20 weeks pregnant, routine ultrasound revealed a huge fetal lung tumor shoving the heart aside and stunting growth of lung tissue.

"At first there was really no hope," says Benjamin's father Todd. "As you can imagine, we were devastated." But the young Salt Lake City couple soon learned about UCSF's fetal treatment team, which had pioneered surgery to remove this type of non-malignant growth — called cystic adenomatoid malformation (CCAM) — from the lungs of fetuses. Despite the risks of surgery, Todd says, "we knew we'd do anything we could to give our little boy a chance."

Because CCAMs sometimes shrink, Jill's doctor and the UCSF team waited and watched for a few weeks. But when the mass grew even larger and fluid began to accumulate in the tiny chest, they acted fast. UCSF researchers had previously shown that the fluid ("hydrops") signaled heart failure and certain death before birth.

On December 30, pediatric surgeon N. Scott Adzick, MD, and colleagues partially removed the fetus from his mother's womb, cut the tumor out of his body, and then returned him to the uterus. "The mass had filled the entire chest," Adzick says, "but once it was out the remaining lung tissue grew like gangbusters."

Allen J. Balderson

Jill and Todd Crosland with baby Benjamin

So far the fetal treatment group has operated on eight fetuses with CCAMs that would have killed them before birth. Benjamin, who is doing very well, is the fifth to survive.

In Brief

Superior Court Upholds Mount Zion's SEIR

Superior Court Judge Stuart R. Pollak has rejected a neighborhood group's legal challenge to UCSF/Mount Zion's plans to build an outpatient cancer center and a research facility. He ruled that UCSF/Mount Zion's Subsequent Environmental Impact Report (SEIR), concerning changes in proposed construction to carry out UCSF/Mount Zion's original development plan, was valid.

The center and research facility are necessary components of the planned UCSF Comprehensive Cancer Center, the only National Cancer Institute-designated Comprehensive Cancer Center in Northern California.

UCSF Chancellor Joseph B. Martin emphasized, "We will continue to work with community members and neighborhood groups to keep the exchange of information a high priority. This cancer center will serve the people in our neighborhood and the local community as well as being a regional resource."

African-American Women Needed for Study

The faculty ob/gyn practice at Mount Zion is looking for postmenopausal African-American women to participate in a bone loss study. The reason for the study is that it has been presumed that women of color are at lower overall risk for fractures due to osteoporosis, although studies have shown that when fractures occur in this group, the long-term consequences are much greater. The study will assess the benefit of a drug called alendronate. Participants will receive physical exams, blood and urine tests and bone density tests every three months. If you or someone you know might be eligible for this study, call Janis Luft, NP, at 441-1597.

Incontinence Study

Volunteers are needed for a study to determine whether a new drug can help women who have problems with incontinence, the involuntary loss of bladder control experienced by millions of Americans. Women over 18 who lose urine when they don't want to urinate may be eligible for the study, which will be conducted at the San Francisco VA Medical Center. Participants need not be veterans. All study-related care is free.

The researchers believe that Levsin-SL (hyoscyamine sulfate), a drug already in use for other purposes, may help strengthen muscles that control the release of urine from the bladder. For further information, call 750-6964.

Lease with Davies Medical

UCSF is leasing 8,700 square feet of unused space at R.K. Davies at 14th and Castro for the new home of the Immunogenetics & Transplantation Laboratory. Discussions were initiated by Davies Medical Center in response to news stories about UCSF's space crisis. Additional leases may be considered for programs about to be displaced by construction of UCSF's new Central Utilities Plant. The laboratory tests blood and tissue samples to determine the compatibility of donor organs and potential recipients. It performs all of the testing for heart, kidney, liver, lung, and kidney-pancreas organ transplants and bone marrow transplants at UCSF.

More News for You

on the back page

What's happening

November/Decem
A bimonthly calen
events at UC San F

Special Events

Sponsored by Millberry Arts & Performances unless otherwise noted. Call 476-2542.

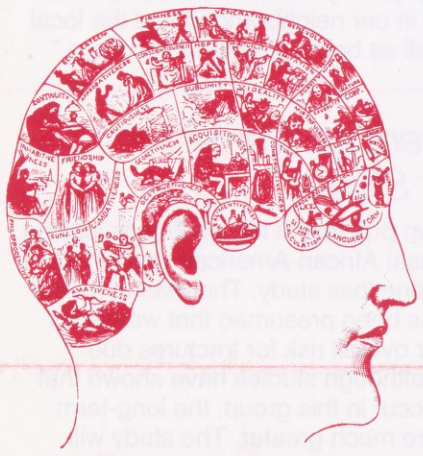
Fri., Nov. 5
Exploring the Double Helix: Dentistry's New Frontier in DNA Technology. Sponsored by School of Dentistry & American Dental Assn. Moscone Center. Call 476-1101.

Plaza Pulse Noontime Concert Series. Featuring FRENCHY, a cabaret combo of marimba, clarinet, acoustic bass, drums & voice. Plaza Grill, 500 Parnassus. Noon.

Sun., Nov. 7
UCSF Orchestra Fall Concert. Features Debussy's *La Mer.* $4/$6/$8. Millberry Gym, 500 Parnassus. 4 p.m. Call 476-2675.

Fri., Nov. 12
Poetry on Parnassus. Poetry readings by campus & guest speakers. Toland Hall, 533 Parnassus. 4 p.m.

Thurs., Dec. 2
Fourth Annual Holiday Crafts Faire. Handmade crafts by UCSF staff & community artists. Millberry Gym, 500 Parnassus. 9 a.m.-4 p.m.



Thurs., Dec. 2
Gordon Tompkins Lecture & Concert. "Consciousness, Computation & the Brain." John Searle, Philosophy, UCB. Sponsored by Department of Biochemistry & Biophysics. 3 p.m. Cole Hall. Call 476-8658.

Wed., Dec. 8
Holiday Vendor Gift Sale. Costume jewelry, stocking stuffers & more. Millberry Conf. Cntr., 500 Parnassus. 8 a.m.-5 p.m.

Gospel Choir at UCSF Holiday Concert. Enjoy holiday music performed by UCSF faculty & staff. Lange Reading Rm., UCSF Library, 530 Parnassus. 6 p.m.

Great Expectations Programs for Parents

The UCSF Birth Center offers classes for expectant parents. Rm. 326, Ambulatory Care Center, 400 Parnassus. Call 476-MOMS for registration & information. Also call for details about San Francisco Mothers of Twins Club.

Sat., Nov. 6
Infant Nutrition. Learn about formula feeding, introducing solid foods, nutritional needs & practical tips. $10 individuals/$15 couples. 11 a.m.-12:30 p.m.

Tues., Dec. 7
Enjoying Pregnancy. Learn about nutrition, stress reduction, working pregnant, sexuality, physical & emotional changes. $10 individuals/$15 couples. 6:30-8:30 p.m.

Cancer Referral Hotline

The UCSF Cancer Referral Service enables cancer patients to place just one telephone call and learn the names of UCSF doctors specializing in the kind of treatment they need. Call 1-800-888-8664.

Lakeside Senior Medical Center Series

Free lectures held on Wednesdays at 10 a.m. at Lakeside Presbyterian Church, corner of Eucalyptus & 19th Ave., near Stonestown. Call 586-8600.

Nov. 3
Case Management/Help at Home. Find out about services designed to evaluate & help those needing assistance with daily living.

Nov. 10
Dealing with Chronic Pain.

Dec. 1
Year-End Tax Strategies.

Dec. 15
Osteoarthritis: Why Me & What Can I Do About It?

Look Good, Feel Better

This program provides expert advice on makeup, wigs & the use of turbans to people who have undergone chemotherapy or radiation and have lost or are losing their hair. Held the first Monday of each month in the 11th floor Solarium, Long Hospital, 505 Parnassus. Co-sponsored by the American Cancer Society and supported by the Donna Smith Fund. Call 476-1383.

Outdoors Unlimited

Outdoors Unlimited is a cooperative resource center for outdoor recreation and adventure, serving both the UCSF campus and the general public. It provides skills training, equipment rentals, trip planning information and a place to meet others with similar interests. For more information or to receive a quarterly listing of trips and clinics, call 476-2078.

Wed., Nov. 3
WilderArt VI. Join poets, dancers & other artists expressing their vision of nature & the wilderness. $3 donation. Millberry Conf. Cntr., 500 Parnassus. 6-9:30 p.m. Call 457-0447 or 566-5001 to be in the program.

Wed., Nov. 10
Winter Bicycling Planning. Share your favorite bike ride & get involved in OU's bike network. Millberry Conf. Cntr., 500 Parnassus. 7 p.m.

Sat., Nov. 20
Tribal Stomp. Dance to the world beat of Danjuma Adamu & his band Cosono. $3/$5/$7/$10. Millberry Conf. Cntr., 500 Parnassus. 8 p.m.- midnight.

At the Heart of It

At the Heart of It, a cardiac support group for heart patients experiencing fear, anxiety, confusion & stress, is facilitated by a cardiac social worker and a registered nurse. Meets at UCSF/Mount Zion, 1600 Divisadero. For further information call 885-7227.

Art Exhibits

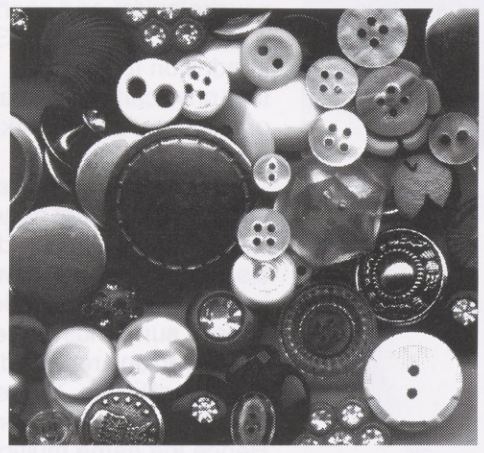
Opens Dec. 2
Prints by Claire McQueeney. On display at the Faculty/Alumni House, 745 Parnassus. Open weekdays or by appointment. Call 476-4723. Opening reception for artist on Wed., Dec. 8. 5-7 p.m. Monoprints & watercolors by Allis Teegarden & Noriko Hasegawa continue on display through November.

Hospitals Auxiliary Art Exhibit. On display in the lobby of Moffitt/Long Hospitals, 505 Parnassus, during November and December will be etchings and monotypes by artists from Fort Mason. A portion of all proceeds benefits patients at the Medical Center at UCSF. To purchase or reserve work, visit the Auxiliary Office, Rm. 182, Moffitt Hospital, 505 Parnassus, 9 a.m.-4 p.m., or call 476-4906. New 1994 entertainment discount books also are available.

Women's Programs

Events sponsored by the Women's Resource Center, unless otherwise noted. Call 476-5222.

Tues., Nov. 2
Rate It X. Documentary & discussion about sexism in America. Sponsored by Rape Prevention Educ. Prog. Toland Hall, 533 Parnassus. Noon-1:30 p.m.



Sat., Nov. 6
Buttons! Buttons! Buttons! Learn how to make fun, eye-catching button jewelry. $30-35. Rm. 717B, Nursing Bldg., enter through 521 Parnassus. 10 a.m.-2:30 p.m.

Sun., Nov. 7
Mystery Writing. Learn the art, craft & business of mystery writing. $45-$60. Rm. 130, Clinical Sciences, 521 Parnassus. 10 a.m.-5 p.m.

Wed., Nov. 10
Women Who Kill Their Batterers in Self-Defense. Discussion on whether society is punishing women, particularly women of color, for fighting back. $5. Toland Hall, 533 Parnassus. 6:30-8 p.m.

Wed., Nov. 10 & Tues., Nov. 16
Sexual Harassment Awareness Workshops. Toland Hall, 533 Parnassus. Noon-1:30 p.m. or 3:30-5 p.m.

Thurs., Nov. 11
When Teasing Goes Over the Line: Children & Sexual Harassment at School. Toland Hall, 533 Parnassus. 7-9 p.m.

Sat., Nov. 13
Under the Hood ... Again: A Car Care & Safety Workshop for Women. $20. Ellis-Brooks Chevrolet-Nissan-Geo, 1395 Van Ness Ave. 9 a.m.-1:30 p.m.

Breast Cancer Screening

Women can have low-cost mammograms — X-rays to screen for breast cancer — from a mobile van that travels to convenient Bay Area locations. The procedure takes approximately 20 minutes and costs $60. Your physician's approval is required, plus his/her full name, address & telephone number to assure results are mailed promptly. Appointments must be made at least one month to six weeks in advance. Find out when the van will be in your neighborhood by calling 476-2193 between 9 a.m. and 3 p.m., Monday through Friday. A $60 mammography screening also is available at the UCSF/Mount Zion Medical Center Radiology Department. Call 885-7465.

Personal Safety

The following presentations are available by appointment to groups in the community or at your workplace:

Crime Prevention. Presented by UCSF Police Department. Call 476-5683.

Self-Defense Classes & Sexual Assault Prevention Education. Presented by UCSF Rape Prevention Education Program. Call 476-5222.

Survivors Support Group. Looking at how sexual assault can affect day-to-day life. Sponsored by Rape Prevention Education Program. Twelve consecutive sessions. $5-$25. Call 476-5222 for class dates, time, location and registration.

AIDS Programs

Sponsored by UCSF AIDS Health Project. For more information call 476-3902.

Wed., Nov. 17
Living with HIV Public Forum. Call for complete information.

Individual Risk Assessments & Referrals. By appointment. Free.

Positives Being Positive. Anonymous support groups in the community for people who have tested HIV positive but have not developed symptoms of AIDS.

Other Support Groups. Drop-in & eight-week facilitated groups for men & women with AIDS or HIV infection, in a risk group or otherwise affected.

Institute of Healing Arts & Sciences

All talks are free and held on Fridays at noon in Rm. 721, Nursing Bldg., enter through 521 Parnassus. Call Marie Lehrer at 584-4416 for details.

Nov. 5
Healing the Soul. Learn how to transform difficulties into wholeness & healing.

Nov. 12
Body-Focused Psychotherapy: Freeing the Body Energetic. Heal past traumas through the body's energy system.

Nov. 19
Food for the Spirit. Learn to balance the needs of body, mind & spirit where food is concerned.

Advances in Medical Qigong. $5/7. Rm. 300, Health Sciences West, enter through 513 Parnassus. 7:30-9:30 p.m. Call 788-2227 for information.

Multiple Helpers Outreach Network Support Group. For victims & survivors of violent trauma. Ages 15 & over. Meets on Tuesdays from 10 a.m.-noon and on Wednesdays from 1-3 p.m. in Rm. A222, Langley Porter Psychiatric Institute, 401 Parnassus; and from 7-10 p.m. in Rm. 517, Nursing Bldg., enter through 521 Parnassus. For further information call the helpline at 759-7923, 7 a.m.-10 p.m. daily.

CPR Training

"Save A Heart" Program. CPR classes sponsored by UCSF CPR Center. Rm. 229, Nursing Bldg., enter through 521 Parnassus. Classes are from 9 a.m.-1 p.m. or 6-10 p.m. $20. For class schedule, information & registration call 476-1817.

CPR Road Show. Traveling CPR instruction by volunteer instructors sponsored by the UCSF Center for Prehospital Research & Training. $25. Call 476-8502.

Volunteer Orientation

Program to acquaint prospective volunteers with opportunities available in the Medical Center. Held in Langley Porter Psychiatric Institute Auditorium, 401 Parnassus (P), and at UCSF/Mount Zion in Herbst Hall, 1600 Divisadero (MZ). For further information call 476-1196 (P) or 885-7353 (MZ).

Tues., Nov. 9, 9 a.m.-noon. (P)
Tues., Nov. 9, 9-11:30 a.m. (MZ)
Wed., Nov. 17, 5:30-8:30 p.m. (P)
Wed., Nov. 24, 5-7:30 p.m. (MZ)
Wed., Dec. 8, 9-11:30 a.m. (MZ)
Wed.,Dec. 22, 5-7:30 p.m. (MZ)

Recreation & Fitness

Millberry Fitness Center offers over 50 classes a week for all ages, abilities, interests & body types. Find a new way to work out. Call 476-1115 for more information & a free brochure.

Cole

Cole Hal
end of 19
1994. Th
476-2542

Brow

A series
on Wedn
West, en
monthly
Mission C
and mon
UCSF/M
Call 476-

Nov. 3
Aging &
slow dow

Nov. 10
Your Tw
How to s
developm
life. (P)

Nov. 16
The Pair
ment of

Nov. 17
Comput

Nov. 18
Making
sense of
of low int
(MCB)

Nov. 24
Current
How drug

Dec. 1
Holiday
into fear

Dec. 8
Living w

Dec. 9
How to A

Dec. 14
Take My
of humor

Can

Call Cam
476-4394

ber/December 1993
nthly calendar of public
at UC San Francisco

Cole Hall Cinema

Cole Hall Cinema will be closed through the end of 1993, with plans to re-open in January 1994. Thank you for your patience. Call 476-2542 for further information.

Brown Bag Lectures

A series of free lectures held weekly at noon on Wednesdays in Rm. 300, Health Sciences West, enter through 513 Parnassus (P); monthly on Thursdays in Rm. 125, UCSF-Mission Center Building (MCB), 1855 Folsom; and monthly on Tuesdays in Herbst Hall, UCSF/Mount Zion (MZ), 1600 Divisadero. Call 476-4394.

Nov. 3
Aging & Its Modifiers. What can we do to slow down the aging process? (P)

Nov. 10
Your Two-Year Old: Terrible or Terrific? How to survive the physical & psychological developments of your child's second year of life. (P)

Nov. 16
The Pain of De-feet. Diagnosis & management of common foot problems. (MZ)

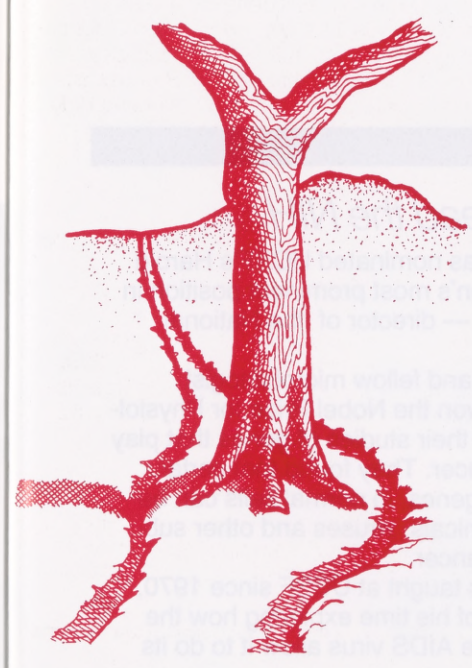
Nov. 17
Computer-Assisted Drug Design. (P)

Nov. 18
Making That House Your Home. Make sense of the various loan programs in this era of low interest rates & affordable prices. (MCB)

Nov. 24
Current Drugs from the '60s to the '90s. How drug use patterns have changed. (P)

Dec. 1
Holiday Blues. Why holiday cheer can turn into fear & tears. (P)

Dec. 8
Living with Diabetes. (P)



Dec. 9
How to Avoid Ski Injuries. (MCB)

Dec. 14
Take My Call ... Please. The healing power of humor & the lighter side of medicine. (MZ)

Campus Tours

Call Campus Tours & Speakers Bureau at 476-4394 to arrange a tour.

UCSF

University of California, San Francisco
Public Affairs
3333 California Street, Suite 103
San Francisco, CA 94143-0462

Giving prostate cancer the deep freeze may have saved Joe Reich's life.

Wait and see.

That's common and, perhaps, appropriate medical advice for many men diagnosed with prostate cancer. Prostate cancer often grows so slowly that an elderly man is likely to die first of other causes.

But Joe Reich is not a man to wait. A retired businessman, an avid tennis player, athletic and vital at 76 years old, Joe Reich is used to taking charge. "My nature is such that action is better than waiting," says Joe.

Such an attitude served him well. He read as much as he could about the disease. He learned that prostate cancer ranks number one among cancers found in American men and that as a cancer killer of American men, it's number two. He also learned about a recently developed test for prostate cancer called a PSA, or prostate-specific antigen, test. And he insisted that his doctor perform it.

Tests performed a year apart showed that Joe's PSA levels had nearly doubled, indicating the possibility of cancer in the walnut-sized gland at the neck of his bladder and urethra. Subsequent biopsies confirmed the cancer diagnosis.

At that point, Joe's doctor suggested the wait-and-see strategy. But Joe called the National Cancer Institute's information hotline (1-800-4cancer) to find out more about treatment options.

Through the hotline, Joe learned about a new treatment called cryosurgery. Cryosurgery is much less invasive than prostate removal or radiation treatment. It also may have a lower incidence of follow-up complications, such as urinary incontinence and bleeding, and a much shorter hospital stay and recovery period. Less trauma to the body may be especially important for elderly patients.

In cryosurgery, doctors use liquid nitrogen, which measures -180 degrees Fahrenheit, to freeze the cancer and the prostate. The frozen tissue dies and is absorbed into the body. Scar tissue then forms in its place.

Joe's inquiries into cryosurgery led him to urologist Peter Carroll, MD, at UC San Francisco. Joe's condition concerned Carroll for three reasons: the dramatic increase in the PSA level, the tumor's size and the tumor's location on the edge of the prostate gland. Carroll believed that, given Joe's otherwise excellent health, the tumor might spread and then metastasize, cutting short Joe's life. So like Joe, Carroll did not want to wait. "Cryosurgery made the best sense."

The two-hour surgery, performed by Carroll and his colleague, urologist Katsuto Shinohara, MD, used ultrasound to place five needle-like probes for injecting the liquid nitrogen. Shinohara placed an ultrasound probe into the rectum, which is separated from the prostate by only a thin tissue lining. And Carroll inserted the probes into the perineum, which is located between the scrotum and anus.

Carroll also placed a catheter containing warm water into the urethra to prevent urethral freeze damage, and a catheter from the bladder through the pelvic cavity to temporarily aid in urination after the surgery.

Watching his work on an ultrasound monitor, Carroll and Shinohara maneuvered the probes into the prostate. They then pumped in the nitrogen, making sure that the iceball building up in the prostate didn't grow so large as to damage surrounding tissue.

After only two days in the hospital, Joe returned to his home in the Oakland hills for a few weeks of rest and recuperation. Soon he was back on the tennis courts.

Joe claims he's playing tennis better than before. "I faxed Doctor Carroll," he says, "and told him that one possible side effect of cryosurgery is that it's improved my tennis game."

— Marshall Krantz

(For more information about cryosurgery, please call 476-8800.)

Tom Wachs

November/December 1993

To Our Neighbors

Giving Prostate Cancer Patients the "Deep Freeze"

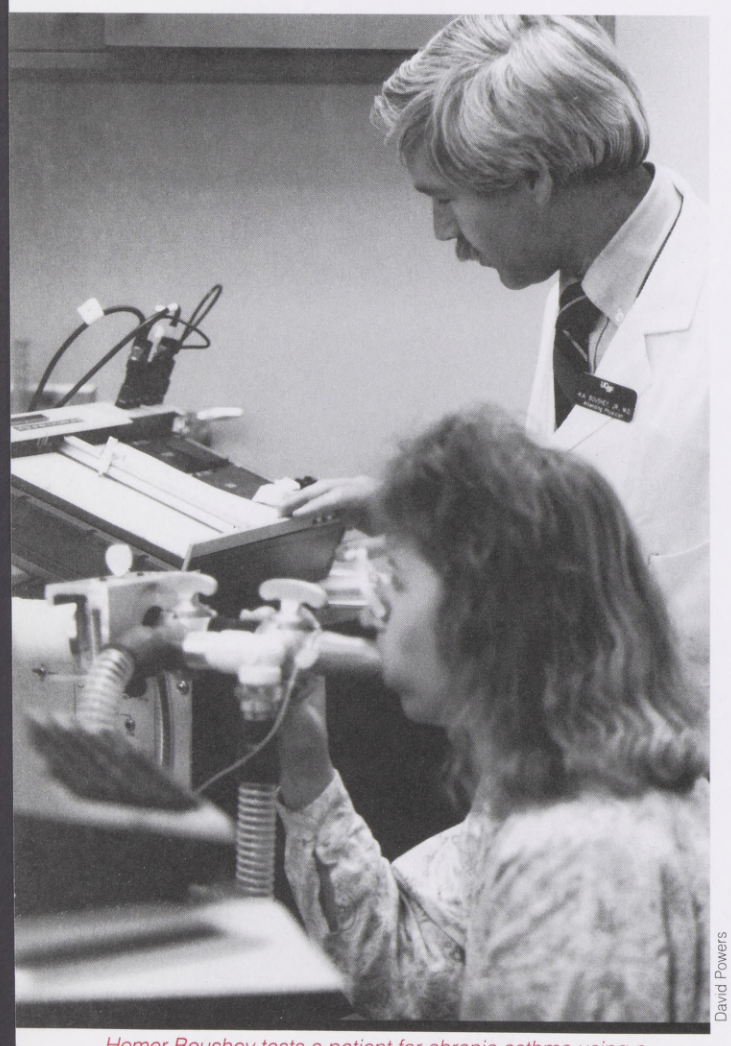
New Multiple Sclerosis Center at Mount Zion

Successful Transplants — Single Liver for Two Recipients

UCSF
University of California, San Francisco
513 Parnassus Avenue, San Francisco, CA 94143-0462

More News for You

New Asthma Research Center Opens



David Powers

Homer Boushey tests a patient for chronic asthma using a machine called the body plethysmograph.

More people are suffering from asthma than ever before. Statistics from almost every western country show that over the past 20 years there have been unprecedented jumps in the number of physician visits, hospitalizations and deaths from asthma.

The deaths are particularly alarming — at a rate of 5,000 per year now, when just a few years ago that number was less than 1,800. In this country, asthma has become the number one chronic disabling illness in children.

Are present treatments effective? What more can be done to help the 15 million sufferers in this country alone?

Help may soon be on the way thanks to the opening of the new UCSF Asthma Research Center. Made possible by a grant from the National Heart Lung & Blood Institute, the center is headed by cardiovascular researcher and physician Homer A. Boushey, MD.

"Some of the treatments that have been used are not as effective as they should be. In fact, they may be doing more harm than good," says Boushey.

Boushey explains that recent research suggests that the most common asthma medications, those given by aerosol, provide symptomatic relief by quickly reducing bronchial restriction, and are life-saving in an acute attack, but may indeed be harmful with extended, excessive use over long periods of time.

The new center, which is a collaborative effort with four other institutions across the country, will test inhaled therapies presently used against newer anti-inflammatory drugs which are being developed through recent advances in cellular and molecular biology.

The Asthma Research Center needs volunteers. If you have asthma and would like to learn more about what is involved, call 476-8494. For further information on asthma treatment, support groups and courses, call 476-8019.

Varmus to Head the NIH

President Clinton has nominated UCSF's Harold Varmus to the nation's most prominent position in biomedical science — director of the National Institutes of Health.

In 1989, Varmus and fellow microbiologist J. Michael Bishop won the Nobel Prize for Physiology or Medicine for their studies of genes that play a role in human cancer. They found that certain genes, called oncogenes, in normal cells can be "turned on" by chemicals, viruses and other substances to cause cancer.

Varmus, who has taught at UCSF since 1970, also spends much of his time exploring how the genes carried by the AIDS virus allow it to do its deadly work.

Program to Fund New Approaches for TB Control

The Robert Wood Johnson Foundation is funding a program to support demonstration projects on tuberculosis control and prevention. The program provides approximately $5.5 million over a three-year period for up to five projects across the country submitting the best proposals to improve partnerships between local public health agencies and organizations not affiliated with health departments to fight the spread of TB.

The program is administered by the National Program Office, which is directed by Philip C. Hopewell, MD, UCSF professor of medicine at SFGH. For further information, call 476-9601.

13 3102